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(71) Applicant: **UNILEVER PLC**  
**Unilever House Blackfriars P.O. Box 68**  
**London EC4P 4BQ (GB)**

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(71) Applicant: **UNILEVER NV**  
**Burgemeester s'Jacobplein 1 P.O. Box 760**  
**NL-3000 DK Rotterdam (NL)**

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(72) Inventor: **Green, Martin Richard**  
**Yew Tree Cottage Water Stratford**  
**Buckingham Bucks MK18 59U (GB)**

(74) Representative: **Tonge, Robert James et al**  
**UNILEVER PLC Patents Division P.O. Box 68 Unilever**  
**House**  
**London EC4P 4BQ (GB)**

(54) **Cosmetic composition.**

(57) A composition suitable for topical application to mammalian skin or hair comprises:

(a) a growth factor chosen from:

- (i) transforming growth factor alpha (TGF- $\alpha$ ),
- (ii) transforming growth factor beta (TGF- $\beta$ ),
- (iii) insulin-like growth factor-1 (IGF-1),
- (iv) fragments thereof of one or more of said growth factors, and
- (v) mixtures thereof of said growth factors or fragments of said growth factors; and

(b) a cosmetically acceptable vehicle for the growth factor or fragments thereof; the total amount of growth factor being sufficient to increase hair growth in the rat, when the composition is applied topically thereto over a period of no more than 3 months, by at least 10% more than that obtainable using a control composition from which the said growth factor has been omitted, in accordance with the Rat Hair Growth Test.



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number

EP 89 30 2755

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	FR-A-2 533 438 (SEDERMA) * Claims; page 5, table: last entry * ---	1,9-11	A 61 K 7/06 A 61 K 7/48
P,X	EP-A-0 272 920 (UNILEVER) * Claims; page 3, line 45 - page 4, line 15; page 5, line 9 - page 10, line 46; page 12, lines 44-56; page 12, line 58 - page 14, line 30; example 1 * ---	1-29	
P,Y	EP-A-0 280 460 (ELI LILLY) * Page 1, lines 28-29; claims * ---	1	
Y	EP-A-0 190 018 (ONCOGEN) * Claims * ---	1	
Y	SCIENCE, vol. 229, no. 4714, 16th August 1985, pages 673-675; J.P. TAM: "Physiological effects of transforming growth factor in the newborn mouse" * Page 674, column 3, paragraph 2 - page 675, column 1, paragraph 1; page 674, table 2 * -----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			A 61 K
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 13-11-1989	Examiner WILLEKENS G.E.J.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application I : document cited for other reasons & : member of the same patent family, corresponding document	